Choose the Correct Answer:

Which of the following is the greatest?



1.

$$\sqrt{(-8)^2 + (-6)^2} = \dots$$

If -x > 4, then

 $2 \times 6 - 4 \times 2 = \cdots$

(b) ± 10

(c) 14

(d) - 14

2.

$$(a) 23 \times 10^{4}$$

3.

(c) 9 X

4.

(a) X > -4 (b) X > 4

5.

(b) 8

(c) 10

(d) 2

6.

(b) 5

(c) 25

(d) - 7

7.

The multiplicative inverse of $\sqrt{\frac{100}{25}}$ is

(a) $\pm \frac{10}{5}$ (b) $\pm \frac{5}{10}$ (c) $\frac{10}{5}$

The age of Amr now is X years, then his age 5 years ago is ... (a) 5 X

(b) x-5 (c) 5-x (d) x+5

If 4 X = 20, then 3 X - 1 =

(a) 14

(b) 15

10.

The S.S. of the inequality x < 0 in \mathbb{N} is

(a) $\{0\}$ (b) $\{1\}$ (c) $\{0,1\}$

11.

(c) X^6

(d) X^4

12.

(c) $\pm \frac{5}{7}$

13.

(b) 7

(c) 16

(d) 20

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14. If
$$5 \times x = 15$$
, then $2^{\times} = \dots$

If
$$X + 9 = 11$$
, then $7X = \dots$

15.
$$(a) 2$$

N

$$9 + 4 \times 3^2 = \cdots$$

Complete:

17. If
$$7-2 x = 3$$
, then $x = \dots$ where $x \in \mathbb{Q}$

18. If
$$3 \times 1 \ge 10$$
, then $X \ge \dots$ where $X \in \mathbb{Q}$

19. The standard form of the number
$$0.7 \times 0.005 = \cdots$$

$$20. \quad \left(-\frac{3}{7}\right)^0 \times \left(\frac{-2}{5}\right)^2 \times \sqrt{6\frac{1}{4}}$$

21. If
$$x + 2 = 6$$
, then $x = \dots$

22.
$$7(6^2 - 5 \times 6) = \cdots$$

24. If
$$3x + 1 = 16$$
, then the value of $4x = \dots$

25.
$$\sqrt{9+16} = 3 + \dots$$

26. If
$$2 \times 2 = 5$$
, then $6 \times 2 = 5 = 3$

27. The solution set of the inequality:
$$-x > -1$$
 in \mathbb{N} is

28. If
$$2 x = \sqrt{36}$$
, then $3 x - 4 = \dots$

$$29. \quad \left| \left(\frac{-3}{2} \right)^2 \times \sqrt{\frac{64}{9}} \times \left(\frac{2}{7} \right)^0 \right|$$

30. If
$$2 x + 7 = 3$$
, then $x = \dots$

32.
$$\sqrt{(-8)^2+6^2} = \cdots$$

33. The multiplicative inverse of the number
$$-\sqrt{\frac{9}{16}} = \cdots$$

34. If
$$x + 5 = 1$$
, then the S.S. in \mathbb{N} is

Choose the Correct Answer:



The image of the point (-1, 3) by translation (4, -2) is

35. (a) (3, 1)

- (b) (3,-1) (c) (5,1)

The image of the point (2, -5) by reflection in \overline{x} -axis is 36.

- (a) (2, -5)
- (b) (2,5) (c) (-2,-5) (d) (5,2)

The image of the point (3, -2) by reflection in the y-axis is the point

- 37. (a) (3, 2)
- (b) (-3, -2)
- (c) (-3, 2)
- (d) (-2,3)

In the opposite figure:

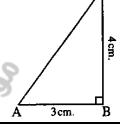
 $AC = \cdots cm$.

38. (a) 5

(b)7

(c) 25

(d) 625



In the opposite figure:

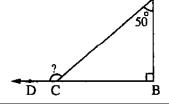
m (∠ ACD) = ·······°

39. (a) 40

(b) 140

(c) 90

(d) 50



The reflected image of the point A (-3, 2) in the origin point is the point

- À (.....) 40.
 - (a) (3, -2) (b) (3, 2)

The reflection in the x-axis maps the point B (x, y) to the point

- B (...... 41.
- (a) (X, y) (b) (X, -y) (c) (-X, -y) (d) (-X, y)

The image of the point (-1, 3) under the translation (4, -2) is the point

- (..... **,**) 42.
 - (a) (5, -5) (b) (5, 1)
- (c) (3,1)

The image of the point (-4, 5) by translation (2, -3) is

- 43. (a) (2, 2)

- (b) (-2, 2) (c) (2, -2) (d) (-2, -2)

If ABC is right-angled triangle at B , AB = 20 cm., AC = 25 cm., then the

- length of BC = cm. 44.
 - (a) 5

- (b) 45
- (c) 225
- (d) 15

adddddadddad (Prep 1 April Revision 2021) addddddddddddddd The line segment joining the midpoints of two sides of a triangle is the third side. 45. (a) bisect to (b) perpendicular (c) equal to (d) parallel to The image of a rhombus by any translation is a 46. (a) rhombus. (b) rectangle. (c) square. (d) trapezium. ABC is a triangle in which m ($\angle A$) = 90°, then $(AC)^2 = (BC)^2$ (AB)² 47. (a) +(b) -The image of the point (-1, 3) by reflection in y-axis is 48. (a)(1,3)(b) (3, -1)(c)(-1,-3)Any triangle has at least two interior angles. 49. (b) obtuse (c) acute In \triangle ABC if m (\angle B) = 90°, AB = 6 cm., BC = 8 cm., then AC = 50. (a) 100 (c)6In the opposite figure: X, Y are midpoints of \overline{AB} , \overline{AC} respectively, $\overline{BC} = 10$ cm. \Rightarrow then XY = \cdots cm. 51. (b) 20 (a) 5(c) 10(d) 3010 cm. Complete: The image of the point (5, 3) by translation: $(x, y) \longrightarrow (x+3, y-1)$ is 52. The length of the line segment that joins two midpoints of two sides of a triangle 53. equals the length of the third side. In the opposite figure: 54. **x** =o č Find the value of X: 55.

In the rectangle ABCD, $(AB)^2 + (AD)^2 = \cdots$

56.

Choose the Correct Answer:

1.
$$\sqrt{(-8)^2 + (-6)^2} = \dots$$

1.
$$\sqrt{(-8)^2 + (-6)^2} = \dots$$

(a)
$$|-10|$$
 (b) ± 10

$$(d) - 14$$

Which of the following is the greatest? 2.

(a)
$$2.3 \times 10^{4}$$

(b)
$$2.3 \times 10^5$$

(c)
$$3.2 \times 10^4$$

(d)
$$3.2 \times 10^5$$

(a)
$$3 x$$
 (b) $3 x^2$

(b)
$$3 x^2$$

(d)
$$9 x^2$$

If
$$-x > 4$$
, then

4. (a)
$$\chi > -4$$

(a)
$$X > -4$$
 (b) $X > 4$

(c)
$$X < -4$$

(d)
$$\chi < 4$$

$$2 \times 6 - 4 \times 2 = \cdots$$

$$\sqrt{9+16} = \cdots$$

$$(d) - 7$$

7. The multiplicative inverse of
$$\sqrt{\frac{100}{25}}$$
 is

(a)
$$\pm \frac{10}{5}$$

(a)
$$\pm \frac{10}{5}$$
 (b) $\pm \frac{5}{10}$

(c)
$$\frac{10}{5}$$

(d)
$$\frac{5}{10}$$

The age of Amr now is
$$X$$
 years, then his age 5 years ago is

(b)
$$x-5$$

(c)
$$5 - X$$

(d)
$$X + 5$$

9. If
$$4 \times 20$$
, then $3 \times 1 = \dots$

The S.S. of the inequality x < 0 in \mathbb{N} is

(a)
$$\{0\}$$

(b)
$$\{1\}$$

(c)
$$\{0,1\}$$

(a)
$$X^8$$

(c)
$$X^6$$

$$(d) x^4$$

(a)
$$\frac{5}{7}$$

(b)
$$\frac{-5}{7}$$

(c)
$$\pm \frac{5}{7}$$

(d)
$$\frac{7}{5}$$

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14. If $5 \times x = 15$, then $2^{\times} = \dots$

(a) 2

- (b) 8
- (c) 3

(d) 9

If x + 9 = 11, then $7x = \dots$

15. (a) 2

(b)9

- (c) 11
- (d) 14

 $9 + 4 \times 3^2 = \cdots$

- 16. (a) 45
- **(b)** 117
- (c) 24
- (d) 33

Complete:

17. If
$$7-2 \times x=3$$
, then $x=-2$ where $x\in\mathbb{Q}$

18. If
$$3x + 1 \ge 10$$
, then $x \ge \dots \longrightarrow$ where $x \in \mathbb{Q}$

19. The standard form of the number
$$0.7 \times 0.005 = 3.5 \times 10^{-3}$$

20.
$$\left(-\frac{3}{7}\right)^0 \times \left(\frac{-2}{5}\right)^2 \times \sqrt{6\frac{1}{4}} = \frac{2}{5}$$

21. If
$$X + 2 = 6$$
, then $X = \cdots$

22.
$$7(6^2 - 5 \times 6) = 42$$
....

23.
$$0.75 \times 10^8$$
 in the standard form is 7.5×10^8 in the standard form is 7.5×10^8

24. If
$$3 \times 1 = 16$$
, then the value of $4 \times 1 = 16$

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$$-x > -1$$
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, then $3 \times -4 = -\frac{1}{2}$

29.
$$\left| \left(\frac{-3}{2} \right)^2 \times \sqrt{\frac{64}{9}} \times \left(\frac{2}{7} \right)^0 \right| = 6$$

30. If
$$2 \times 7 = 3$$
, then $X = -2$...

31. The standard form of
$$0.000057 = 5.7.4.10^{-5}$$

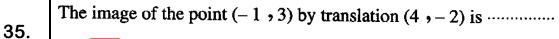
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Choose the Correct Answer:



(a) (3,1)

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 - (a) (2, -5)
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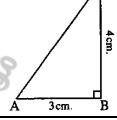
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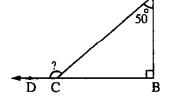
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(a) 40

(c) 90

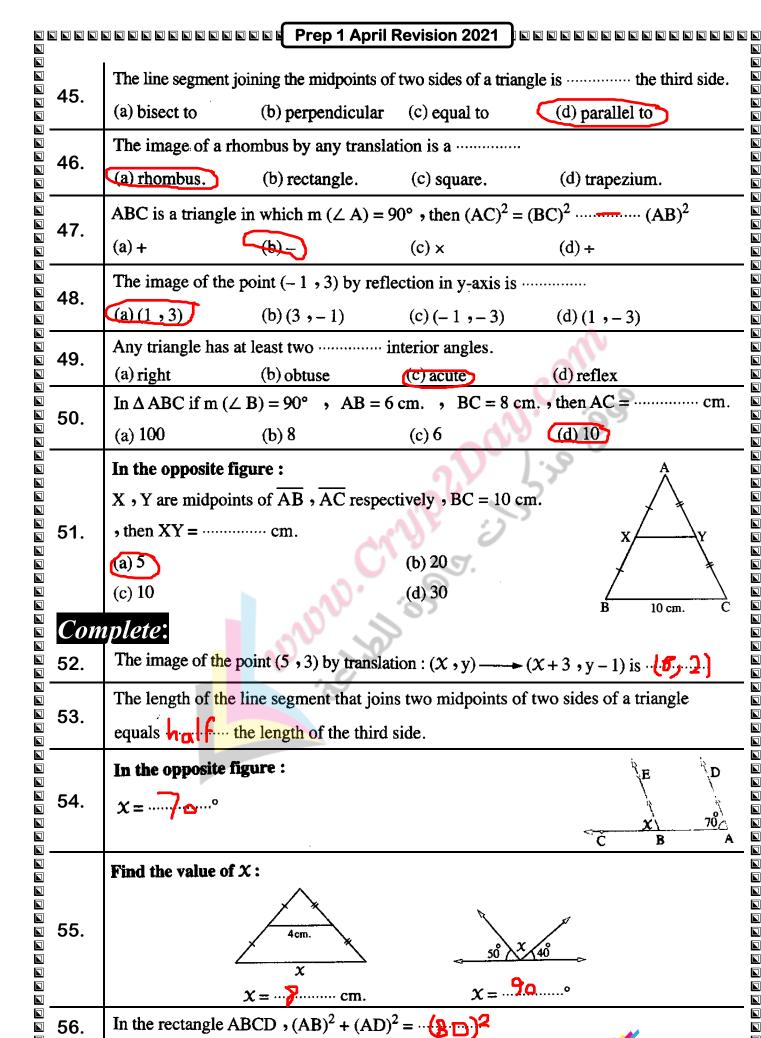
(d) 50



- The reflected image of the point A (-3, 2) in the origin point is the point
- À (.....) 40.
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- The reflection in the x-axis maps the point B (x, y) to the point
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